



## PPARs in Metabolic Regulation: Implications for Health and Disease

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### Message from the Guest Editors

According to the World Health Organization, noncommunicable diseases (NCDs) kill 41 million people each year, equivalent to more than 70% of all deaths worldwide. There is mounting evidence that a group of related transcription factors, the nuclear receptors called peroxisome proliferator-activated receptors (PPARs), are involved in some of these chronic diseases, such as obesity, diabetes, cardiovascular diseases, and cancer. PPAR activity is modulated not only by fatty acids and their derivatives, but also by drugs such as thiazolidinediones and fibrates, which has instigated an extraordinary research effort for understanding the roles of PPARs in health and disease, more particularly through metabolic regulation. This Special Issue of IJMS will cover the latest developments in the physiological functions of PPARs in all organs, including their responses to nutrition and physical activity. It will explore processes regulated by PPARs, which are implicated in cellular and whole-organism metabolism. How key roles of PPARs in healthy and diseased organisms can be modulated to maintain or improve the optimal health of individuals and populations is of foremost interest.





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## Message from the Editor-in-Chief

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